



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Gregory et al.  
SERIAL NUMBER : 10/540,161 EXAMINER :  
FILING DATE : June 17, 2005 ART UNIT :  
TITLE : Nanostructures

Mail Stop: IDS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants make of record the documents listed on the attached Form PTO/SB/08, as well as copies of the listed documents.

This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits. Accordingly, no fee or certification is believed due at this time.

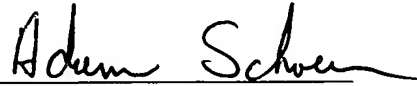
It is respectfully requested that the Examiner consider fully the documents made of record herein, in addition to other information, in reaching a determination concerning the patentability of the present claims. It is further respectfully requested that the Examiner sign the enclosed form PTO/SB/08 to evidence that the documents listed have been fully considered by the U.S. Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, Applicants make no representation that a search has been performed, 37 C.F.R. § 1.97(g), or that the information listed in this Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b), 37 C.F.R. § 1.97(h), or that no other material information exists. Applicants make no representation that the information cited in this Statement is,

or is considered to be, prior art as defined by 35 U.S.C. § 102. The filing of this Statement shall not be construed as an admission against interest in any manner.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited information. An early and favorable action is respectfully requested.

Respectfully submitted,



Adam M. Schoen Reg. No. 58,576

Sonia K. Guterman Reg.No. 44,729

Attorneys for Applicants

Lawson & Weitzen, LLP

88 Black Falcon Ave., Suite 345

Boston MA 02210-2481

Tel: (617) 439-4990

Fax: (617) 439-3987

Customer Number 48425

Dated: September 14, 2006



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

|                        |                  |
|------------------------|------------------|
| Application Number     | 10/540,161       |
| Filing Date            | June 17, 2005    |
| First Named Inventor   | Gregory et al.   |
| Art Unit               | Not yet assigned |
| Examiner Name          | Not yet assigned |
| Attorney Docket Number | 37737-012        |

**U. S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | A1                       | US- 5,876,682                            | 03-02-1999                     | Kurihara et al.                                    |   |
|                       | A2                       | US- 5,997,832                            | 12-07-1999                     | Lieber et al.                                      |   |
|                       | A3                       | US- 6,398,125                            | 06-04-2002                     | Liu et al.   |   |
|                       | A4                       | US- 4,234,554                            | 11-18-1980                     | Rabenau et al.                                     |   |
|                       | A5                       | US- 2,488,054                            | 11-15-1949                     | Davis  |   |
|                       | A6                       | US- 2,910,347                            | 10-27-1959                     | Esmay  |   |
|                       | A7                       | US- 2,866,685                            | 12-30-1958                     | Schafer et al.                                     |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |
|                       |                          | US-                                      |                                |  |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
|                       |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                       | B1                       | WO 02/081366  | 10-17-2002                        | Commonwealth Scientific                            |   |                |
|                       | B2                       | WO 02/42204 A2  | 05-30-2002                        | Lockheed Martin Corp.                              |   |                |
|                       | B3                       | WO 98/24576   | 06-11-1998                        | University of Connecticut                          |   |                |
|                       | B4                       | WO 96/30570   | 10-03-1996                        | Hyperion Catalysis                                 |   |                |
|                       | B5                       | PCT/GB03/05565  | 7-08-2004                         | International Search Report                        |   |                |
|                       | B6                       | PCT/GB03/05565  | 6-28-2005                         | Int. Preliminary Exam Rpt.                         |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|                        |                  |
|------------------------|------------------|
| Application Number     | 10/540,161       |
| Filing Date            | June 17, 2005    |
| First Named Inventor   | Gregory et al.   |
| Art Unit               | Not yet assigned |
| Examiner Name          | Not yet assigned |
| Attorney Docket Number | 37737-012        |

Sheet 2 of 2

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    | C1                    | CUI S ET AL., Synthesis of Nanometric-size Magnesium Nitride by the Nitriding of Pre-activated Magnesium Powder, Journal of Materials Science, 11-15-1999, pp. 5601-5604, vol. 34 n. 22, Chapman and Hall Ltd. London, GB                                       |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |
|                    |                       |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.